GCX
INSTRUMENT MOUNTING SYSTEMS

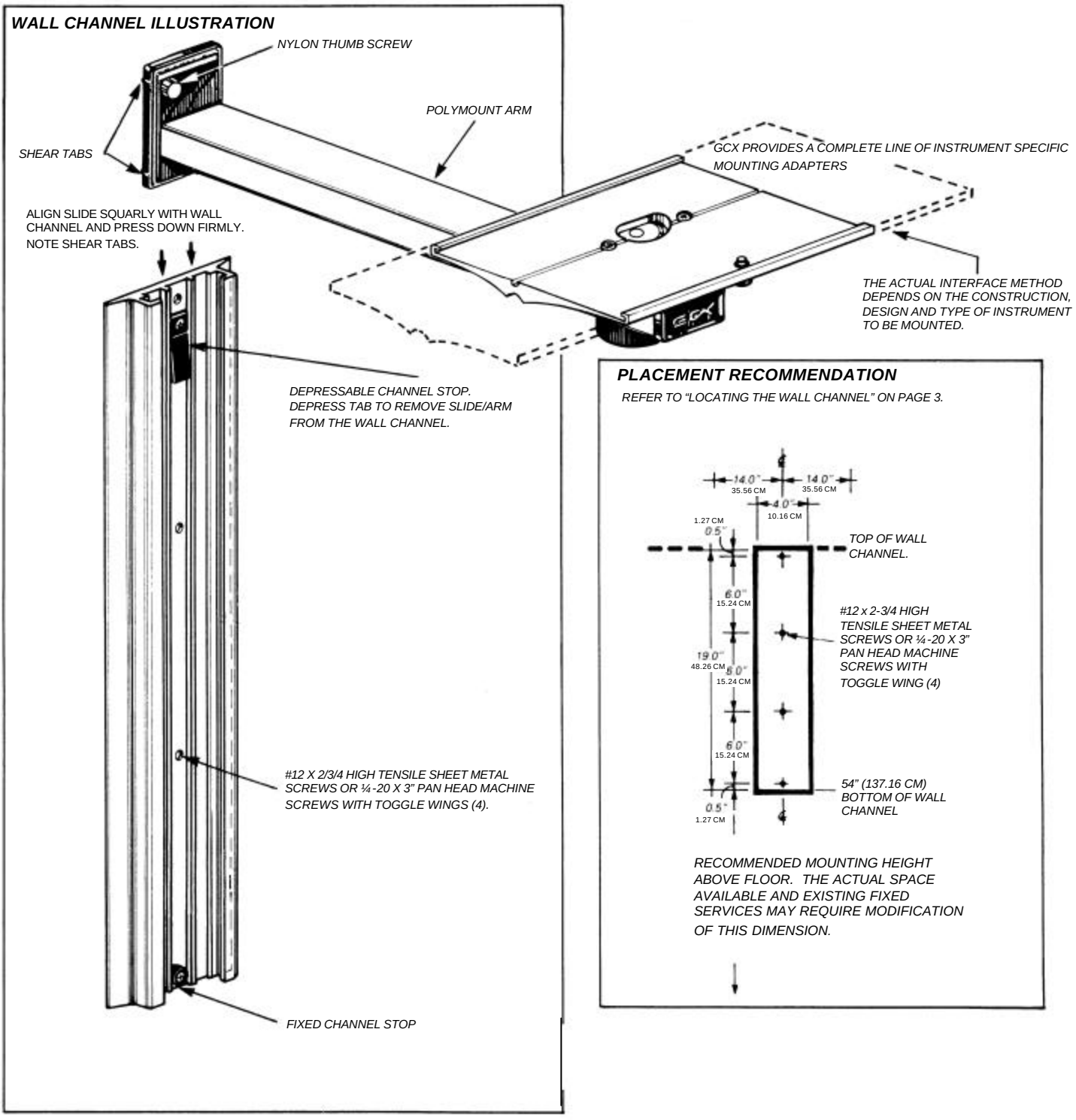
PolyMount ®

WARNING: REFER TO QUALIFIED PERSONNEL. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY.

WALL CHANNEL INSTALLATION INSTRUCTIONS FOR NON-SEISMIC SENSITIVE APPLICATIONS

THE MAXIMUM LOAD RATING FOR THIS SYSTEM IS 80 lbs. / 36 Kg (VB SERIES PRODUCTS) OR 110 lbs. / 50 Kg (FT SERIES PRODUCTS)

WALL CHANNEL ILLUSTRATION


NYLON THUMB SCREW
POLYMOUNT ARM
SHEAR TABS
GCX PROVIDES A COMPLETE LINE OF INSTRUMENT SPECIFIC MOUNTING ADAPTERS
ALIGN SLIDE SQUARLY WITH WALL CHANNEL AND PRESS DOWN FIRMLY. NOTE SHEAR TABS.
THE ACTUAL INTERFACE METHOD DEPENDS ON THE CONSTRUCTION, DESIGN AND TYPE OF INSTRUMENT TO BE MOUNTED.
DEPRESSABLE CHANNEL STOP. DEPRESS TAB TO REMOVE SLIDE/ARM FROM THE WALL CHANNEL.
#12 X 2/3/4 HIGH TENSILE SHEET METAL SCREWS OR ¼-20 X 3" PAN HEAD MACHINE SCREWS WITH TOGGLE WINGS (4).
FIXED CHANNEL STOP

PLACEMENT RECOMMENDATION

REFER TO "LOCATING THE WALL CHANNEL" ON PAGE 3.

14.0" 35.56 CM
14.0" 35.56 CM
4.0" 10.16 CM
1.27 CM 0.5"
TOP OF WALL CHANNEL.
6.0" 15.24 CM
#12 x 2-3/4 HIGH TENSILE SHEET METAL SCREWS OR ¼-20 X 3" PAN HEAD MACHINE SCREWS WITH TOGGLE WING (4)
19.0" 48.26 CM
6.0" 15.24 CM
6.0" 15.24 CM
54" (137.16 CM) BOTTOM OF WALL CHANNEL
0.5" 1.27 CM

RECOMMENDED MOUNTING HEIGHT ABOVE FLOOR. THE ACTUAL SPACE AVAILABLE AND EXISTING FIXED SERVICES MAY REQUIRE MODIFICATION OF THIS DIMENSION.

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SUPPORT BACKING FOR 5/8 (15.87 mm) GYPSUM BOARD WALLS FOR WALL MOUNTED INSTRUMENTATION.

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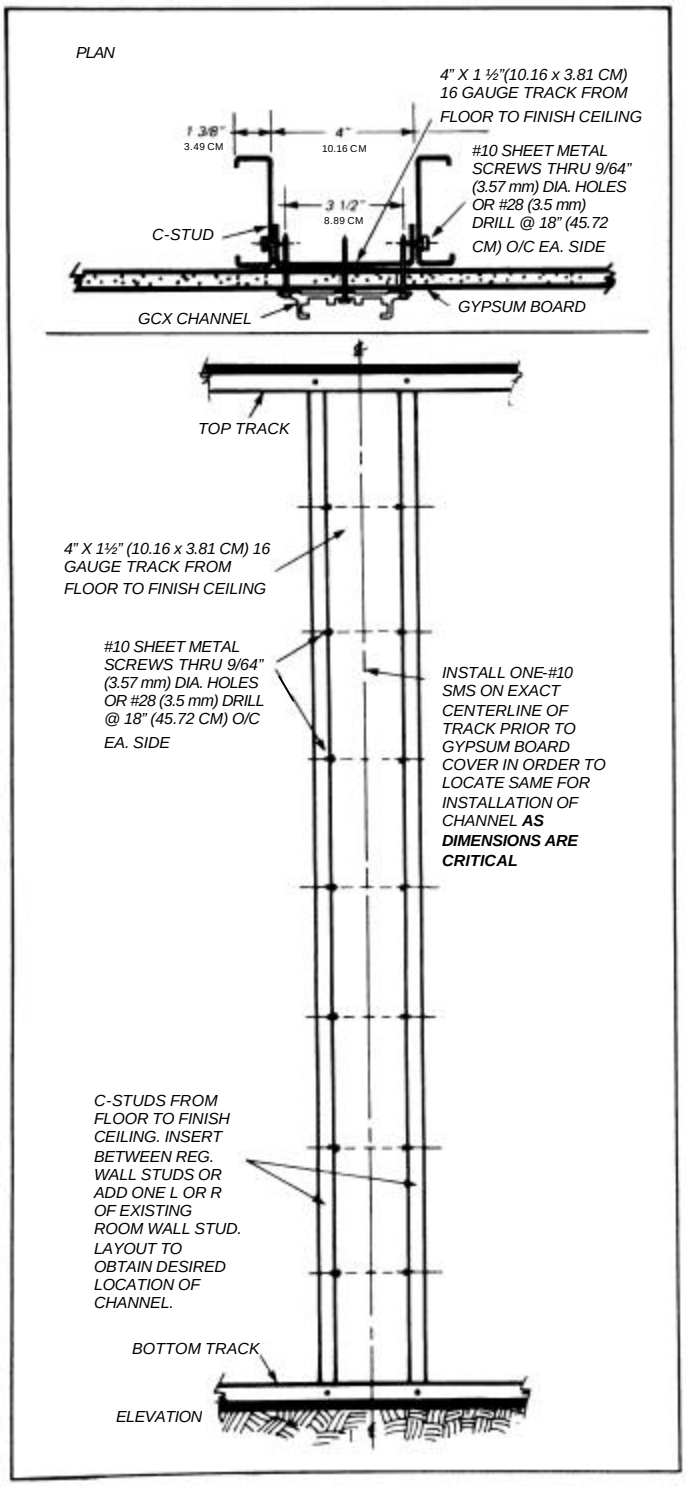
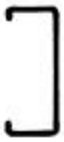

PLAN
4" X 1 ½"(10.16 x 3.81 CM) 16 GAUGE TRACK FROM FLOOR TO FINISH CEILING
1 3/8" 3.49 CM
4" 10.16 CM
3 1/2" 8.89 CM
#10 SHEET METAL SCREWS THRU 9/64" (3.57 mm) DIA. HOLES OR #28 (3.5 mm) DRILL @ 18" (45.72 CM) O/C EA. SIDE
C-STUD
GCX CHANNEL
GYPSUM BOARD
TOP TRACK
4" X 1½" (10.16 x 3.81 CM) 16 GAUGE TRACK FROM FLOOR TO FINISH CEILING
#10 SHEET METAL SCREWS THRU 9/64" (3.57 mm) DIA. HOLES OR #28 (3.5 mm) DRILL @ 18" (45.72 CM) O/C EA. SIDE
INSTALL ONE-#10 SMS ON EXACT CENTERLINE OF TRACK PRIOR TO GYPSUM BOARD COVER IN ORDER TO LOCATE SAME FOR INSTALLATION OF CHANNEL AS DIMENSIONS ARE CRITICAL
C-STUDS FROM FLOOR TO FINISH CEILING. INSERT BETWEEN REG. WALL STUDS OR ADD ONE L OR R OF EXISTING ROOM WALL STUD. LAYOUT TO OBTAIN DESIRED LOCATION OF CHANNEL.
BOTTOM TRACK
ELEVATION

THIS ANCHORAGE WILL ALLOW FOR A QUICK AND SIMPLE INSTALLATION OF THE WALL CHANNEL. 16 GAUGE STEEL WILL PREVENT THE MATERIAL FROM EXTRUDING UP THE SHANK OF THE SCREW (STRIPPING). 11/64" (4.36 mm) DIAMETER HOLES ARE REQUIRED FOR #12 X 2-3/4" HIGH TENSILE, PHILIPS HEAD SCREWS (4) INSTALLED DOWN THE CENTERLINE. (NON-SEISMIC APPLICATIONS).

A SECOND TRACK CAN BE USED FOR BACK TO BACK INSTALLATIONS. A 2" X 4" (5.08 x 10.16 CM) WOOD STUD MAY BE USED IF ALLOWED BY LOCAL BUILDING CODES.

MINIMUM REOUIREMENT

16 GAUGE STEEL STUD



2" X 4" (5.08 x 10.16 CM) WOOD STUD

A LATERAL FORCE IN EXCESS OF 80 LBS. (36 Kg) APPLIED 17" (43.18 CM) OUT FROM THE WALL WILL CRACK 5/8" (15.87 mm) THICK GYPSUM BOARD ALONG THE CHANNEL FLANGE. *THIS IS NOT ACCEPTABLE IN SEISMIC SENSITIVE AREAS AND NOT ALLOWED IN CALIFORNIA. SEISMIC WALL CHANNEL INSTALLATION INSTRUCTIONS ARE PRINTED SEPARATELY.*

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INSTRUCTIONS AND THE ILLUSTRATIONS COVERING THE SPECIFIC INSTRUMENT TO BE MOUNTED SHOULD BE REVIEWED PRIOR TO INSTALLATION OF THE WALL CHANNEL.

It shall be the responsibility of the hospital, its consultants and/or contractors to determine that the wall is adequate to safely mount instrumentation. This includes the selection of appropriate fasteners and the proper installation of the same. In new construction and remodeling work where the wall covering can be entirely or partly removed, a 16 gauge steel stud should be located for the purpose of attaching the wall channel. The following is provided as guideline information only.

LOCATING THE WALL CHANNEL:

Generally, the bottom edge of a 19 inch (48.26 CM) Wall Channel is placed 56 inches (142.24 CM) above the floor, plus or minus 4 inches. Devices may require lower channel placement. The bottom of the device will be 4-1/2 inches (10.16 CM) above the bottom of the channel (6-1/2 inches (16.51 CM) when using 15 inch (38.10 CM) support arm with a diagonal brace) with the Arm at its lowest position. Access to device controls should be considered before mounting the wall channel.

Allow clearance on either side of the channel centerline to clear objects such as over-bed lighting, privacy curtains, adjacent walls or columns, door swing arcs, etc. Power and signal outlets should be considered when selecting a channel location. Avoid oxygen, vacuum and air outlets and space for attendant flow meters and regulators. Do not place any portion of the device over a patient bed.

DRYWALL (GYPSUM BOARD) OVER 16 GAUGE SHEET METAL OR WOOD STUDS:

The Wall Channel must be anchored into the stud.

Locate the exact centerline of the stud. Drive a #4 finishing nail through the drywall to contact the stud. Withdraw and drive again 3/8" (9.52 mm) right and left until the edges of the stud have been located and hence the centerline determined. The wall channel's 4 inch (10.16 CM) width will cover these exploratory holes.

Drill 11/64" (17 mm) diameter holes for #12 X 2-3/4" high tensile Philips head screws in a single 16 gauge stud through channel centerline, (4 places). Install the top screw and level the channel, then mark and drill the other holes.

DRYWALL (GYPSUM BOARD) OVER SHEET METAL STUDS LESS THAN 16 GAUGE:

The Wall Channel must be anchored into the stud.

Locate the centerline of the stud per the above instructions. Use ¼-20 X 3" pan head machine screws and toggle wings. Drill 11/16" diameter holes with a sharp speed bore or twist drill (requires pilot hole). Note that the round stop at the bottom of the channel goes over the shank of the bottom screw. Insert screws through Wall Channel holes then affix the toggle wings to the screws. Insert toggle wings into previously drilled holes. Use a level to make sure the channel is vertical prior to final seating of the screws.

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PLASTER COAT OVER EXPANDED METAL LATH ON STEEL STUDS, HOLLOW TILE, HOLLOWBLOCK:

Drill 5/8" (16 mm)holes. Broach the holes in hard materials to allow for the toggle wing to pass through. Insert screws through Wall Channel holes then affix the toggle wings to the screws. Insert toggle wings into previously drilled holes. Use a level to make sure the channel is vertical prior to final seating of the screws.

CONCRETE WALLS:

REFER TO QUALIFIED PERSONNEL. Contact GCX for concrete installation addendum.

THROUGH WALL, BACK TO BACK INSTALLATIONS:

Sufficient length 1/4-20 machine screws, nuts, washers and/or back plates must be obtained to mount the channel by drilling all the way through the thin partition wall. If two channels are to be mounted back to back, internally threaded sleeves, exact length screws and specific procedures are available from GCX upon request. A Portalign drill fixture is recommended for this procedure.

SPECIAL APPLICATIONS:

Channels can be attached to a GCX 4" X 4" (10.16 x 10.16 CM), 1/8" (3.17 mm) wall aluminum support column or certain mullions, etc.. Contact GCX to discuss solutions to wall mounting problems for any situation not covered by these guidelines.

ALTHOUGH CONSIDERABLE EFFORT HAS BEEN MADE TO ENSURE THE SAFETY OF THE ABOVE INSTALLATION AND/OR GUIDELINES, THE INSTALLATION ITSELF IS BEYOND THE CONTROL OF GCX CORPORATION. ACCORDINGLY, GCX CORPORATION WILL NOT BE RESPONSIBLE FOR THE FAILURE OF ANY SUCH INSTALLATION.

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